

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :)
)
 Richard M. Barth et al.)
)
 Application No.: Not yet assigned)
)
 Filed: Herewith)
)
 For: Re-Issue of U.S. Patent No. 5,765,020)
 issued June 9, 1998 and entitled:)
)
 METHOD OF TRANSFERRING DATA BY)
 TRANSMITTING LOWER ORDER AND UPPER)
 ORDER MEMORY ADDRESS BITS IN SEPARATE)
 WORDS WITH RESPECTIVE OP CODES AND)
 START INFORMATION)
)

Assistant Commissioner for Patents
Washington, D.C. 20231

DECLARATION FOR REISSUE APPLICATION UNDER 37 CFR 1.175

Sir:

As below named inventors, we hereby declare that:

1. Our post office addresses and citizenship are stated below next to our names.
2. We verily believe that we are original, first and joint inventors of the subject matter which is described and claimed in the above-identified reissue application entitled "Method Of Transferring Data By Transmitting Lower Order And Upper Order Address Bits In Separate Words With Respective Op Codes And Start Information" (herein "the reissue application").
3. We have reviewed and understand the contents of the reissue application, including the claims, as amended by the amendment submitted herewith.
4. We acknowledge the duty to disclose information material to the patentability of the reissue application in accordance with 37 CFR 1.56.
5. We believe the original patent to be partly inoperative because we claimed less than we had a right

095935-042600

to claim in the patent. In particular, we believe the claims in the original patent to be primarily directed towards devices that control memory devices, (e.g., transmitting memory requests to the memory device), or to be primarily directed towards apparatus external to a memory device (e.g., a computer system). We believe that it was error not to include claims directed to a method of operation within the memory device and that this error has unduly narrowed the coverage of the original patent. This error has been corrected in an amendment submitted herewith by submitting new claim 12 reciting a method of operation in a memory device.

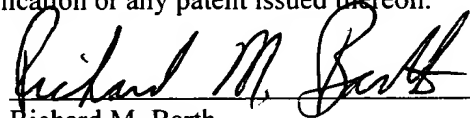
6. All errors being corrected in the reissue application up to the time of filing of this declaration, including the above described error, arose without deceptive intent on our part.

We further declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date Signed: 4-14-00

Post Office Address

Citizenship



Richard M. Barth
787 Los Robles Avenue
Palo Alto, CA 94306
USA

Date Signed: _____

Post Office Address

Citizenship

Matthew M. Griffin
360 Apricot Lane
Mountain View, CA 94040
USA

Date Signed: _____

Post Office Address

Citizenship

Frederick A. Ware
13961 Fremont Pines Lane
Los Altos Hills, CA 94022
USA

Date Signed: _____

Post Office Address

Citizenship

Mark A. Horowitz
1309 San Mateo Drive
Menlo Park, CA 94025
USA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :)
)
 Richard M. Barth et al.)
)
 Application No.: Not yet assigned)
)
 Filed: Herewith)
)
 For: Re-Issue of U.S. Patent No. 5,765,020)
 issued June 9, 1998 and entitled:)
)
 METHOD OF TRANSFERRING DATA BY)
 TRANSMITTING LOWER ORDER AND UPPER)
 ORDER MEMORY ADDRESS BITS IN SEPARATE)
 WORDS WITH RESPECTIVE OP CODES AND)
 START INFORMATION)
)

Assistant Commissioner for Patents
Washington, D.C. 20231

DECLARATION FOR REISSUE APPLICATION UNDER 37 CFR 1.175

Sir:

As below named inventors, we hereby declare that:

1. Our post office addresses and citizenship are stated below next to our names.
2. We verily believe that we are original, first and joint inventors of the subject matter which is described and claimed in the above-identified reissue application entitled "Method Of Transferring Data By Transmitting Lower Order And Upper Order Address Bits In Separate Words With Respective Op Codes And Start Information" (herein "the reissue application").
3. We have reviewed and understand the contents of the reissue application, including the claims, as amended by the amendment submitted herewith.
4. We acknowledge the duty to disclose information material to the patentability of the reissue application in accordance with 37 CFR 1.56.
5. We believe the original patent to be partly inoperative because we claimed less than we had a right

0559335-042600

to claim in the patent. In particular, we believe the claims in the original patent to be primarily directed towards devices that control memory devices, (e.g., transmitting memory requests to the memory device), or to be primarily directed towards apparatus external to a memory device (e.g., a computer system). We believe that it was error not to include claims directed to a method of operation within the memory device and that this error has unduly narrowed the coverage of the original patent. This error has been corrected in an amendment submitted herewith by submitting new claim 12 reciting a method of operation in a memory device.

6. All errors being corrected in the reissue application up to the time of filing of this declaration, including the above described error, arose without deceptive intent on our part.

We further declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date Signed: _____

Post Office Address

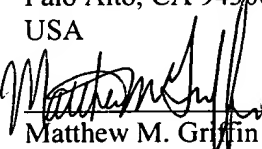
Richard M. Barth
787 Los Robles Avenue
Palo Alto, CA 94306

Citizenship

USA

Date Signed: 4/6/00

Post Office Address


Matthew M. Griffin
360 Apricot Lane
Mountain View, CA 94040

Citizenship

USA

Date Signed: _____

Post Office Address

Frederick A. Ware
13961 Fremont Pines Lane
Los Altos Hills, CA 94022

Citizenship

USA

Date Signed: _____

Post Office Address

Mark A. Horowitz
1309 San Mateo Drive
Menlo Park, CA 94025

Citizenship

USA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :)
)
 Richard M. Barth et al.)
)
 Application No.: Not yet assigned)
)
 Filed: Herewith)
)
 For: Re-Issue of U.S. Patent No. 5,765,020)
 issued June 9, 1998 and entitled:)
)
 METHOD OF TRANSFERRING DATA BY)
 TRANSMITTING LOWER ORDER AND UPPER)
 ORDER MEMORY ADDRESS BITS IN SEPARATE)
 WORDS WITH RESPECTIVE OP CODES AND)
 START INFORMATION)
)

Assistant Commissioner for Patents
Washington, D.C. 20231

DECLARATION FOR REISSUE APPLICATION UNDER 37 CFR 1.175

Sir:

As below named inventors, we hereby declare that:

1. Our post office addresses and citizenship are stated below next to our names.
2. We verily believe that we are original, first and joint inventors of the subject matter which is described and claimed in the above-identified reissue application entitled "Method Of Transferring Data By Transmitting Lower Order And Upper Order Address Bits In Separate Words With Respective Op Codes And Start Information" (herein "the reissue application").
3. We have reviewed and understand the contents of the reissue application, including the claims, as amended by the amendment submitted herewith.
4. We acknowledge the duty to disclose information material to the patentability of the reissue application in accordance with 37 CFR 1.56.
5. We believe the original patent to be partly inoperative because we claimed less than we had a right

009240 5335 042600

to claim in the patent. In particular, we believe the claims in the original patent to be primarily directed towards devices that control memory devices, (e.g., transmitting memory requests to the memory device), or to be primarily directed towards apparatus external to a memory device (e.g., a computer system). We believe that it was error not to include claims directed to a method of operation within the memory device and that this error has unduly narrowed the coverage of the original patent. This error has been corrected in an amendment submitted herewith by submitting new claim 12 reciting a method of operation in a memory device.

6. All errors being corrected in the reissue application up to the time of filing of this declaration, including the above described error, arose without deceptive intent on our part.

We further declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date Signed: _____

Post Office Address

Citizenship

Richard M. Barth

787 Los Robles Avenue
Palo Alto, CA 94306

USA

Date Signed: _____

Post Office Address

Citizenship

Matthew M. Griffin

360 Apricot Lane
Mountain View, CA 94040

USA

Date Signed: April 24, 2000

Post Office Address

Citizenship

Frederick A. Ware

13961 Fremont Pines Lane
Los Altos Hills, CA 94022

USA

Date Signed: April 21, 2000

Post Office Address

Citizenship

Mark A. Horowitz

1309 San Mateo Drive
Menlo Park, CA 94025

USA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :)
)
 Richard M. Barth et al.)
)
 Application No.: Not yet assigned)
)
 Filed: Herewith)
)
 For: Re-Issue of U.S. Patent No. 5,765,020)
 issued June 9, 1998 and entitled:)
)
 METHOD OF TRANSFERRING DATA BY)
 TRANSMITTING LOWER ORDER AND UPPER)
 ORDER MEMORY ADDRESS BITS IN SEPARATE)
 WORDS WITH RESPECTIVE OP CODES AND)
 START INFORMATION)
)

Assistant Commissioner for Patents
Washington, D.C. 20231

**POWER OF ATTORNEY BY ASSIGNEE,
REVOCATION OF ALL PRIOR POWERS OF ATTORNEY
AND
CERTIFICATE UNDER 37 CFR 3.73(b)**

Sir:

The undersigned, being empowered to sign this Power of Attorney, Revocation of All Previous Powers of Attorney and Certificate under 37 CFR 3.73(b) on behalf of Rambus Inc., the assignee of the entire right, title and interest in the above-referenced reissue application, hereby revokes all prior powers of attorney and hereby appoints Neil A. Steinberg, Reg. No. 34,735 and Charles E. Shemwell, Reg. No. 40,171, jointly and severally, with full power of substitution and revocation to prosecute this application and to transact all business before the United States Patent and Trademark Office in the above-referenced reissue application.

Rambus Inc. certifies that it is the assignee of the entire right, title and interest in the above-referenced reissue application and the U.S. patent sought to be reissued by virtue of an assignment from the inventors, Richard M. Barth, Mathew M. Griffin, Frederick A. Ware and Mark A. Horowitz recorded in the U.S. Patent

00540-5E86560

and Trademark Office at Reel 6101, Frame 956.

The undersigned has reviewed all the documents in the chain of title of the above-referenced application and, to the best of the undersigned's knowledge and belief, title is in Rambus Inc., the assignee identified above.

Please direct all correspondence in the above-referenced patent application to:

Charles E. Shemwell
2465 Latham Street
Mountain View, California 94040

Telephone: 650-944-7707
Facsimile: 650-944-8080

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon.

Respectfully submitted,

Date: April 24, 2000

By: 

Neil A. Steinberg
Vice President of Intellectual Property and
General Patent Counsel
Rambus Inc.

009240 SE85560

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :)
)
Richard M. Barth et al.)
)
Application No.: Not yet assigned)
)
Filed: Herewith)
)
For: Re-Issue of U.S. Patent No. 5,765,020)
issued June 9, 1998 and entitled:)
)
METHOD OF TRANSFERRING DATA BY)
TRANSMITTING LOWER ORDER AND UPPER)
ORDER MEMORY ADDRESS BITS IN SEPARATE)
WORDS WITH RESPECTIVE OP CODES AND)
START INFORMATION)

Assistant Commissioner for Patents
Washington, D.C. 20231


CONSENT OF ASSIGNEE TO REISSUE UNDER 37 CFR 1.172 AND
ESTABLISHMENT OF OWNERSHIP INTEREST UNDER 37 CFR 3.73(b)

Sir:

The undersigned, by authority vested in him by Rambus Inc., a corporation of the State of Delaware, having a place of business at 2465 Latham Street, Mountain View, California 94040, the assignee of the entire interest in U.S. Patent No. 5,765,020, the invention described therein, and in any reissue thereof by assignment recorded May 11, 1992 in the United States Patent and Trademark Office at Reel 6101, Frame 956, hereby consents on behalf of the assignee to the application to reissue said U.S. Patent No. 5,765,020 submitted herewith.

Respectfully submitted,

Date: April 24, 2000

By: 
Neil A. Steinberg
Vice President of Intellectual Property and
General Patent Counsel, Rambus Inc.

009240" 5E865560

Attorney Docket No. RA019C3DR

Express Mail No. EK 100 209 556 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :)
)
 Richard M. Barth et al.)
)
 Application No.: Not yet assigned)
)
 Filed: Herewith)
)
 For: Re-Issue of U.S. Patent No. 5,765,020)
 issued June 9, 1998 and entitled:)
)
 METHOD OF TRANSFERRING DATA BY)
 TRANSMITTING LOWER ORDER AND UPPER)
 ORDER MEMORY ADDRESS BITS IN SEPARATE)
 WORDS WITH RESPECTIVE OP CODES AND)
 START INFORMATION)
)

Assistant Commissioner for Patents
Washington, D.C. 20231

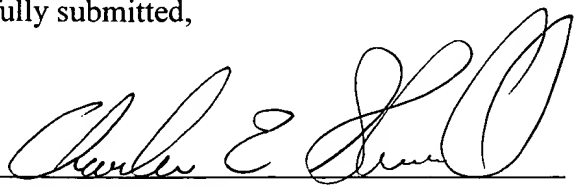
OFFER TO SURRENDER ORIGINAL PATENT UNDER 37 CFR 1.178

Sir:

Applicant hereby offers to surrender United States Patent No. 5,765,020 for which reissue is sought in the attached application. Applicant will surrender the original United States Letters Patent to the United States Patent and Trademark Office upon being informed that the reissue application is in condition for allowance.

Respectfully submitted,

Dated: April 24, 2000

By: 
Charles E. Shemwell
Reg. No. 40,171

Rambus Inc.
2465 Latham Street
Mountain View, CA 94040
Telephone: 650-944-7707

009240-5E86560

EXPRESS MAIL CERTIFICATE OF MAILING

Express Mail" mailing label number: EK 100 209 556 US

Date of Deposit: April 26, 2000

I hereby certify that I am causing the paper(s) and/or fee(s) listed below to be deposited with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated above and that the paper(s) or fee(s) have been addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Michiko Sites

(Typed or printed name of person mailing paper(s) or fee(s))

Michiko Sites

(Signature of person mailing paper or fee)

4-26-2000

(Date signed)

009270" 5E865560